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## EDITORIAL.

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THE fiftieth anniversary of the American Association for the Advancement of Science was held at Boston, August 22 to 27. The total enrolled attendance was 903, new members 273. The number of papers read before the Geological Section was 29; before the Geological Society 19; before the National Geographic Society 8; making the total of geologic and geographic papers 55.

The titles of the papers were as follows :

### VICE PRESIDENTIAL ADDRESS.

Glacial Geology in America. By Professor H. L. FAIRCHILD, Rochester, N. Y.

### BEFORE THE GEOLOGICAL SOCIETY OF AMERICA.

1. Some Features of the Drift on Staten Island, N. Y. By ARTHUR HOLLICK, Columbia University, New York, N. Y.
2. Loess Deposits of Montana. By Professor N. S. SHALER, Cambridge, Mass.
3. Glacial Waters in the Finger Lake Region of New York. By Professor H. L. FAIRCHILD, Rochester, N. Y.
4. The Stratification of Glaciers, with lantern views. By H. F. REID, Baltimore, Md.
5. Evidences of Epeirogenic Movements Causing and Terminating the Ice Age. By WARREN UPHAM, St. Paul, Minn.
6. Clayey Bands of the Glacial Delta of the Cuyahoga River at Cleveland, O., compared with those in the Implement-bearing Deposits of the Glacial Delta at Trenton, N. J., with lantern views. By Professor G. FREDERICK WRIGHT, Oberlin, O.
7. The Middle Coal Measures of the Western Interior Coal Field. By H. FOSTER BAIN and A. T. LEONARD, Des Moines, Ia.
8. The Principal Missourian Section. By CHARLES R. KEYES, Des Moines, Ia.
9. Tourmaline and Tourmaline Schists from Belcher Hill, Jefferson county, Colo. By HORACE B. PATTON, Golden, Colo.

10. Magmatic Differentiation in the Rocks of the Copper-bearing Series. By ALFRED C. LANE, Houghton, Mich.
11. The Volume Relations of Original and Secondary Minerals in Rocks. By Professor CHARLES R. VAN HISE, Madison, Wis.
12. Note on a Method of Stream Capture. By ALFRED C. LANE, Houghton, Mich.
13. The Development of the Ohio River. By Professor WILLIAM G. TIGHT, Granville, O.
14. Classification of Coastal Forms. By F. P. GULLIVER, Southboro, Mass.
15. Dissection of the Ural Mountains, with lantern slides. By F. P. GULLIVER.
16. Note on Monadnock. By F. P. GULLIVER.
17. Spacing of Rivers with Reference to the Hypothesis of Base Leveling. By Professor N. S. SHALER, Cambridge, Mass.
18. The Continental Divide in Nicaragua. By C. WILLARD HAYES, Washington, D. C.

BEFORE THE GEOLOGICAL SECTION OF A. A. A. S.

1. Outline Map of the Geology of Southern New England. By Professor B. K. EMERSON, Amherst, Mass.
2. Basins in Glacial Lake Deltas. By Professor H. L. FAIRCHILD, Rochester, N. Y.
3. An Exhibition of the Rare Gems and Minerals of Mt. Mica. By Dr. A. C. HAMLIN, Bangor, Me.
4. The Hudson River Lobe of the Laurentide Ice-sheet. By Professor C. H. HITCHCOCK, Hanover, N. H.
5. The Age of the Amboy Clay Series as Indicated by its Flora. By Professor ARTHUR HOLLICK, Columbia University, New York, N. Y.
6. Some Feldspars in Serpentine, Southeastern Pennsylvania. By Professor T. C. HOPKINS, State College, Pa.
7. The Region of the Causses in Southern France, with maps and stereopticon views. By Dr. HORACE C. HOVEY, Newburyport, Mass.
8. The Washington Limestone in Vermont. By Professor C. H. RICHARDSON, Hanover, N. H.
9. Fluctuations of North American Glaciation shown by Interglacial Soils and Fossiliferous Deposits. By WARREN UPHAM, St. Paul, Minn.
10. Time of Erosion of the Upper Mississippi, Minnesota, and St. Croix Valleys. By WARREN UPHAM.
11. Supposed "Corduoy Road" of Late Glacial Age at Amboy, O. By Professor G. FREDERICK WRIGHT, Oberlin, O.
12. Changes in the Drainage System in the Vicinity of Lake Ontario during the Glacial Period. By Dr. M. A. VEEDER, Lyons, N. Y.

13. Recent Severe Seismic Movements in Nicaragua. By JOHN CRAWFORD, Managua, Nicaragua.
14. Another Episode in the History of Niagara River. By J. W. SPENCER, Washington, D. C.
15. The Age of Niagara Falls as Indicated by the Erosion at the Mouth of the Gorge. By Professor G. FREDERICK WRIGHT, Oberlin, O.
16. A Recently Discovered Cave of Celestite Crystals at Put-in-Bay, O. By G. FREDERICK WRIGHT.
17. Geography and Resources of the Siberian Island of Sakhalin. By Professor BENJAMIN HOWARD, London, Eng.
18. Evidence of Recent Great Elevation of New England. By J. W. SPENCER, Washington, D. C.
19. The Oldest Palæozoic Fauna. By G. F. MATTHEW, St. John, N. B.
20. The Oldest Known Rock. By Professor N. H. WINCHELL, Minneapolis, Minn.
21. The Origin of the Archæan Igneous Rocks. By Professor N. H. WINCHELL.
22. Joints in Rocks. By Professor C. R. VAN HISE, Madison, Wis.
23. Notes on Some European Museums. By Dr. E. O. HOVEY, New York, N. Y.
24. History of the Blue Hills Complex. By Professor W. O. CROSBY, Boston, Mass.
25. Palæontology of the Cambrian Terranes of the Boston Basin. By AMADEUS W. GRABAU, Boston, Mass.
26. Diamonds in Meteorites. By Mrs. E. M. SOUVIELLE, Jacksonville, Fla.
27. The Periodic Variations of Glaciers. By Professor HARRY F. REID, Baltimore, Md.
28. Note on the Occurrence of Tourmalines in Canada. By C. R. ORCUTT, San Diego, Cal.
29. The Agassiz Geological Explorations in the West Indies. By ROBERT T. HILL, Washington, D. C.

BEFORE THE NATIONAL GEOGRAPHIC SOCIETY.

1. The Venezuela-British-Guiana Boundary Dispute. By Dr. MARCUS BAKER, Washington, D. C.
2. Considerations Governing Recent Movements of Population. By JOHN HYDE, Washington, D. C.
3. Some New Lines of Work in Government Forestry. By GIFFORD PINCHOT, Washington, D. C.
4. The Development of the United States. By W. J. MCGEE, Washington, D. C.

5. Atlantic Estuarine Tides. By M. S. W. JEFFERSON.
6. The Forestry Conditions of Washington State. By HENRY GANNETT, Washington, D. C.
7. The Five Civilized Tribes and the Topographic Survey of Indian Territory. By CHARLES H. FITCH, Washington, D. C.
8. Bitter Root Forest Reserve. By RICHARD U. GOODE, Washington, D. C.

The foregoing has been kindly furnished by Mr. Warren Upham, secretary of Section E, A. A. S.

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GEOLOGISTS visiting the exposition at Omaha, and teachers everywhere, will find particularly valuable the topographic map of Omaha and vicinity, published by the United States Geological Survey and gratuitously distributed in the Mines and Mining building. The map bears the date of June 1898, and is an example of the excellence of the maps now being made. The main features are the Missouri River bottom land and valley, and the loess topography. The former is a most characteristic bit of river work. The cut-off lakes, the great bends of the river, the sharp bluffs where the stream impinges against the bank, and other features are shown so clearly as to make the map especially valuable in the class-room. The apparent similarity in width of the Platte and the Missouri rivers and the dissimilarity in their valleys, will likewise call forth questions.

It is, however, the loess topography which is most interesting, since within the limits of the quadrangle there is an excellent example of the contrast between the wind-shaped loess near, and the water deposited away from, the vicinity of the stream. On the west side of the river, in Omaha and near it, the map shows open contour, gentle slopes, and obvious erosion topography and a rectangular system of roads. The hills rise easily to 1200 or 1250 feet A. T. Immediately across the river the contours are close, the slopes sharp, the roads follow streams and ridges and disregard land lines, and the hills rise abruptly to 1300 or 1350 feet, A. T. A very characteristic feature, well shown on the map, is the large number of small detached peaks. Another is the interference

with the drainage, as for example in the case of Mosquito Creek. This stream, whose valley is followed by the Chicago, Rock Island and Pacific, and the Chicago, Milwaukee, and St. Paul railways, has a quite well developed flood plain and a broad, open valley in its upper portion. As it comes within the influence of the river loess, the valley is choked and becomes a mere narrow defile. This and the other features mentioned are not exceptional, but are found at quite distinct points along the Missouri,<sup>1</sup> and are of considerable significance in the matter of genesis of the loess. There are numerous other items of interest relative to the map, but sufficient has perhaps been said to call attention to its value.

H. F. B.

<sup>1</sup> Geology Plymouth county, Iowa Geol. Surv., Vol. VIII, 1898, pp. 324-332.